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## INDEX TO AMERICAN BOTANICAL LITERATURE

1917-1920

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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**Johns, C. O., & Gersdorff, C. E. F.** The globulin of the cohune nut, *Attalea Cohune*. Jour. Biol. Chem. **45**: 57-67. *pl. 1*. D 1920.

**Knudson, L.** The secretion of invertase by plant roots. Am. Jour. Bot. **7**: 371-379 *f. 1*. 7 D 1920.

**Kränzlin, F.** Beiträge zur Kenntnis der Gattung *Telipogon* H. B. K. Ann. Naturh. Hofmus. Wien **33**: 9-38. 1919.  
Includes 9 new species from tropical America.

**Lee, H. A., & Serrano, F. B.** Banana wilt in the Philippines. Phytopathology **10**: 504, 505. 1920.

**Lloyd, F. E.** Colloidal phenomena in the protoplasm of pollen tubes. Carnegie Inst. Washington Year Book **16**: 63, 64. 1917.

**Lobo, B.** Ilha da Trindade. Arch. Mus. Nac. Rio Janeiro. **22**: 107-158. 1919. [Illust.]  
Includes a brief discussion of the flora.

**Long, E. R.** Dessication and respiration in succulent plants. Carnegie Inst. Washington Year Book **16**: 80-82. 1917.

**Lowe, C. W.** The flora of Warrens Landing, Lake Winnipeg, Manitoba. Can. Field Nat. **33**: 26-30. *f. 1, 2*. F 1920.

**Lutman, B. F.** Tip burn of the potato and other plants. Vermont Agr. Exp. Sta. Bull. **214**: 4-28. *pl. 1, 2 + f. 1-9*. Je 1919.

- Mabbott, D. C.** Food habits of seven species of American shoal-water ducks. U. S. Dept. Agr. Bull. 862: 1-67. 30 D 1920.  
Contains accounts of plants eaten by ducks.
- MacDougal, D. T.** The construction of a biocolloid exhibiting some of the water-relations of living plants. Carnegie Inst. Washington Year Book. 16: 59, 60. 1917.
- MacDougal, D. T.** Growth of wheat (*Triticum*) and Corn (*Zea*). Carnegie Inst. Washington Year Book 16: 85-87. 1917.
- MacDougal, D. T.** Imbibition in biocolloids as affected by acidosis, alkalosis, and neutralization. Carnegie Inst. Washington Year Book 16: 60-62. 1917.
- MacDougal, D. T.** The physical basis of parasitism. Carnegie Inst. Washington Year Book 16: 71-73. 1917.
- MacDougal, D. T.** Rate and course of growth of succulents. Carnegie Inst. Washington Year Book 16: 83-85. 1917.
- Mackenzie, K. K.** Scientific names applicable to our purple-flowered Eupatoriums. Rhodora 22: 157-165. 7 D 1920.
- Mackie, W. W., & Briggs, F. N.** Fungicidal dusts for control of smut. Science II. 52: 540, 541. 3 D 1920.
- Magalhaes, B. de.** Antonio Luiz Patricio da Silva Manso. Arch. Mus. Nac. Rio Janeiro 22: 79-96. 1919.
- Marie-Victorin, Fr.** Le "*Micrampelis lobata*." Nat. Canad. 46: 172-174. F 1920.
- Marie-Victorin, Fr.** La vie sexuelle chez les Hydrocharitacées. Nat. Canad. 45: 130-133. Mr 1919.
- Maxon, W. R.** New selaginellas from the western United States. Smithson. Misc. Coll. 72<sup>5</sup>: 1-10. *pl.* 1-6. 22 D 1920.  
Includes 6 new species.
- Mayhew, I. P.** Winter flowers in Massachusetts. Am. Bot. 26: 140, 141. N 1920.
- McGee, J. M.** Experiments upon the imbibitional swelling of marine algae. Carnegie Inst. Washington Year Book 16: 64, 65. 1917.
- McLarty, H. R.** A suspected mosaic disease of sweet clover. Phytopathology 10: 501-503. *f.* 3. 1920.
- McMurran, S. M., & Demaree, J. B.** Diseases of southern pecans. U. S. Dept. Agr. Farmers' Bull. 1129: 3-22. *f.* 1-23. S 1920.
- Merrill, E. D.** Notes on Philippine Euphorbiaceae. Philipp. Jour. Sci. 16: 539-579. Je 1920.

- Metcalf, Z. P.** Some ecological aspects of the tidal zone of the North Carolina Coast. *Ecology* **1**: 193-197. Jl 1920.
- Mignault, L.-D.** Quelques notes sur une mauvaise herbe. *Nat. Canad.* **45**: 181-183. Je 1919.  
*Euphorbia Helioscopia* L.
- Mignault, L.-D.** Une plante interessante. *Nat. Canad.* **45**: 101-103. Je 1919.  
*Vallisneria spiralis*.
- [**Moore, G. T.**] Hats from plants. *Missouri Bot. Gard. Bull.* **8**: 113-116. N 1920.
- Mousley, H.** *Botrychium obliquum* Muhl. and var. *dissectum* (Spreng.) new to the province of Quebec. *Can. Field Nat.* **33**: 97. N 1919.
- Mousley, H.** Further notes on the orchids of Hatley, Stanstead County, Quebec, 1919. *Can. Field Nat.* **33**: 44-47. N 1920.
- Murrill, W. A.** The fungi of Blacksburg, Virginia. *Mycologia* **12**: 322-328. 27 D 1920.  
Includes *Pluteus praerugosus* sp. nov.
- Murrill, W. A.** Plants as an inspiration in the art of early peoples. *Gard. Mag.* **32**: 246-248. Ja 1921.
- Nelson, J. C.** Under which code? *Am. Bot.* **26**: 129-135. N 1920.
- Odell, W. S.** A rare fungus new to Canada. *Can. Field Nat.* **34**: 10-13. f. 1-6. 1920.
- Osterhout, G. E.** Rocky Mountain botany and the Long Expedition of 1820. *Bull. Torrey Club* **47**: 555-562. 28 D 1920.
- Palmer, E. J.** The ligneous flora of the Staked Plains of Texas. *Jour. Arnold Arbor.* **2**: 90-105. 1920.
- Pammel, L. H.** Some economic phases of botany. *Science* **II**. **53**: 4-15. 7 Ja 1921.
- Parish, S. B.** The immigrant plants of Southern California. *Bull. So. Calif. Acad. Sci.* **19**: 3-30. 1920.  
Includes *Zauschneria orbiculata* sp. nov.
- Pearson, G. A.** Factors controlling the distribution of forest types. *Ecology* **1**: 139-159. f. 1-8; 289-308. f. 9-11. 1920.
- Pennell, F. W.** Soil preferences of Scrophulariaceae. *Torreya* **20**: 10, 11. 1 Ap. 1920.
- Reddick, D.** A fourth *Phytophthora* disease of tomato. *Phytopathology* **10**: 528-534. D 1920.
- Rhoads, A. S.** Studies on the rate of growth and behavior of the blister rust on white pine in 1918. *Phytopathology* **10**: 513-527. D 1920.

- Richards, H. M.** Gas interchange in *Mesembryanthemum* and other succulents. Carnegie Inst. Washington Year Book **16**: 79, 80. 1917.
- Rickett, H. W.** A quantitative survey of the flora of Lake Mendota [Wisconsin]. Science II. **52**: 641, 642. 31 D 1920.
- Rusby, H. H.** Descriptions of three hundred new species of South American plants. Pp. 1-170. 20 D 1920. New York.  
Contains also an index to previously published South American species by the same author.
- [**H. H. Rusby**]. The Mulford biological exploration of the Amazon basin. Am. Jour. Pharm. **92**: 815-820. N 1920.
- Sampaio, A. J. de.** A seção de Botanica no primeiro seculo de existencia do Museu Nacional. Arch. Mus. Nac. Rio Janeiro **22**: 37-47. 1919.
- Schneider, C.** Notes on American willows. X. Jour. Arnold Arbor. **2**: 65-90. 1920.  
Includes 1 new variety and 2 new combinations.
- Seifriz, W.** Viscosity values of protoplasm as determined by microdissection. Bot. Gaz. **70**: 360-386. 24 N 1920.
- Setchell, W. A.** Geographical distribution of the marine spermatophytes. Bull. Torrey Club **47**: 563-579. 28 D 1920.
- Sherff, E. E.** North American species of *Taraxacum*. Bot. Gaz. **70**: 329-359. pl. 31-33. 24 N 1920.
- Shreve, E. B.** The relation between water loss by evaporation and water gain by absorption in colloidal gels. Carnegie Inst. Washington Year Book **16**: 68-71. 1917.
- Shreve, E. B.** The transpiring power of plants. Carnegie Inst. Washington Year Book **16**: 67, 68. 1917.
- Sifton, H. B.** Some characters of xylem tissue in cycads. Bot. Gaz. **70**: 425-434. pl. 37, 38 + f. 1. 30 D 1920.
- Silveira, A. A. da.** Algumas especies novas da flora de Minas Geraes. Arch. Mus. Nac. Rio Janeiro **22**: 99-103. pl. 1-3. 1919.  
Includes new species in *Chusquea*, *Arundinaria* and *Bombax*.
- Small, J. K.** A botanical excursion to the Big Cypress. Nat. Hist. **20**: 488-500. O 1920. [Illust.]
- Soth, B. H.** The alpine spring beauty. Am. Bot. **26**: 115. N 1920.
- Spoehr, H. A.** The carbohydrate economy of cacti. Carnegie Inst. Washington Year Book **16**: 73-79. 1917.
- Standley, P. C.** A new species of *Campnosperma* from Panama. Jour. Arnold Arbor. **2**: 111, 112. 1920.